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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18

Date: 24.05.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.
REFERENCE	:	EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

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Yelahanka Zone
Bangalore

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 24.05.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Date of Testing : 24.05.2017

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	162	16.20	24.30	75.7	75-100
1.18	169	16.90	41.20	58.8	55-90
600 Micron	208	20.80	62.00	38.0	35-59
300 Micron	183	18.30	80.30	19.7	8-30
150 Micron	147	14.70	95.00	5.0	0-10

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 24.05.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Date of Testing : 24.05.2017

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	141	0.94	0.94	99.06	95-100
20	8836	58.91	59.85	40.15	30-70
10	3269	21.79	81.64	18.36	10-35
4.75	2032	13.55	95.19	4.81	0-5

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date : 24.05.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Date of Testing : 24.05.2017

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	108	2.2	2.2	97.8	95-100
10	2934	58.7	60.8	39.2	25-55
4.75	1804	36.1	96.9	3.1	0-10

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 25.05.2017

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP,
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of Work	:	Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
Sample Identification	:	8mm,10mm,12mm, TMT Fe 500 Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	25.05.2017

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	536	547	15.5
2	Fe 500	10	0.62	547	556	16.0
3	Fe 500	12	0.89	552	569	17.0

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 26.05.2017

TEST REPORT

Client	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	75.20	75.15
2	02	75.10	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2
1	01	784.1	24,200	32.40
2	02	783.0	24,200	32.35
3	03	781.6	24,200	32.29

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3. Water Absorption:

Sl. No	Identification	Water Absorption %	Required % as per IS :15658 -2006	Remarks
1	01	5.2%	6.0%	Satisfactory
2	02	5.7%	6.0%	Satisfactory
3	03	5.1%	6.0%	Satisfactory

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 26.05.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.
REFERENCE		EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
SAMPLE ID	:	Table Moulded Non-Modular Brick – Class 5.0
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.30 N/mm^2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	9.20 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos.)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		3815 mm	(3800 ± 80 mm)
(b)	Measurement of Width in mm		1810 mm	(1800 ± 40 mm)
(c)	Measurement of Height in mm		1380 mm	(1400 ± 40 mm)

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 06.06.2017

KERB STONE (CORE) TEST REPORT

Client	:	**Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of Work	:	Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.
Reference		EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017
No.of Sample Tested	:	03
Date of Testing	:	06.06.2017
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	65.00	0.286	2240.90	1.30	0.960	23.15	11.79	12.73	12.22	15.28
2	50.00	75.00	0.365	2478.57	1.50	0.960	24.78	12.62	13.63	13.08	16.36
3	50.00	85.00	0.368	2204.95	1.70	0.960	26.19	13.34	14.41	13.83	17.29

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 28.06.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	8.120	383.6	17.05
2	31.05.2017	28.06.2017	8.093	380.1	16.89
3	31.05.2017	28.06.2017	7.918	402.5	17.89

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Job No.: CECTC/BBMP/KRIDL/W.No.09/2017-18 Date: 28.06.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Development of Civil works at Canara Bank layout Park in Ward No.09 Vidyaranyapura, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/28/2016-17 Dated:27.01.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	7.920	380.1	16.89
2	31.05.2017	28.06.2017	7.983	374.5	16.64
3	31.05.2017	28.06.2017	8.001	370.3	16.46

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